

## REDUCING INDUCTANCE OF A CAPACITOR

Stephanus D. Saputro

Lan Zhang

### ABSTRACT

5           The inductance of the capacitor is reduced by connecting the capacitor directly to a  
via. In one embodiment inductance of a capacitor is reduced by a plurality of via, the number  
of via greater than the number of electrical couplings from the voltage pad to the voltage  
plane. In one embodiment the capacitor has a ground pad of a minimum size. In another  
embodiment the capacitor is electrically coupled to a trace having a length reduced to  
10       minimize inductance.